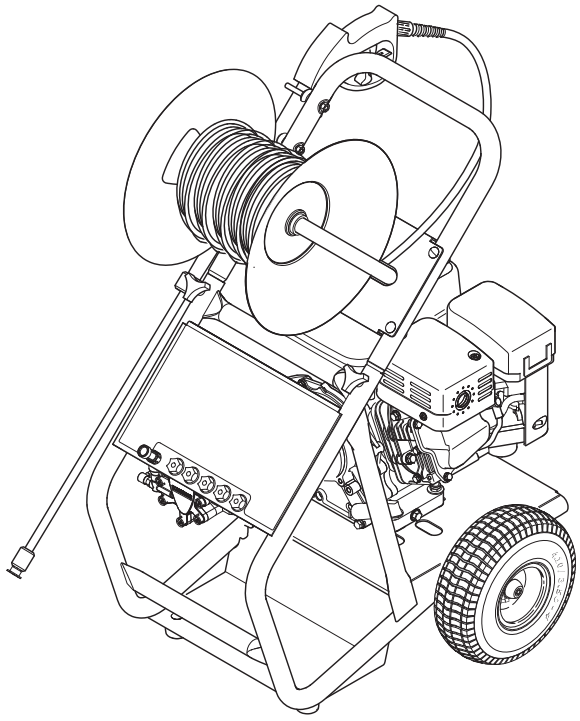
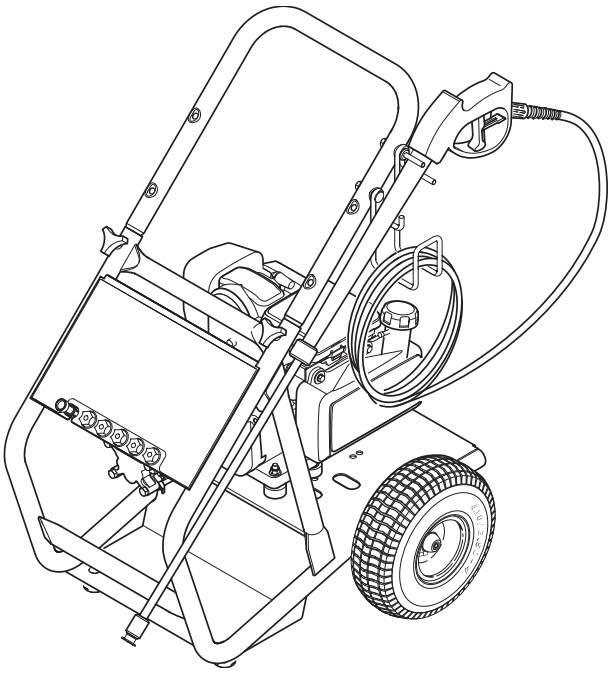
SERVICE MANUAL





MODEL #	ORDER #
KG-252437	1.107-238.0
KG-262637	1.107-239.0
KG-313137	1.107-240.0
KG-403637	1.107-241.0

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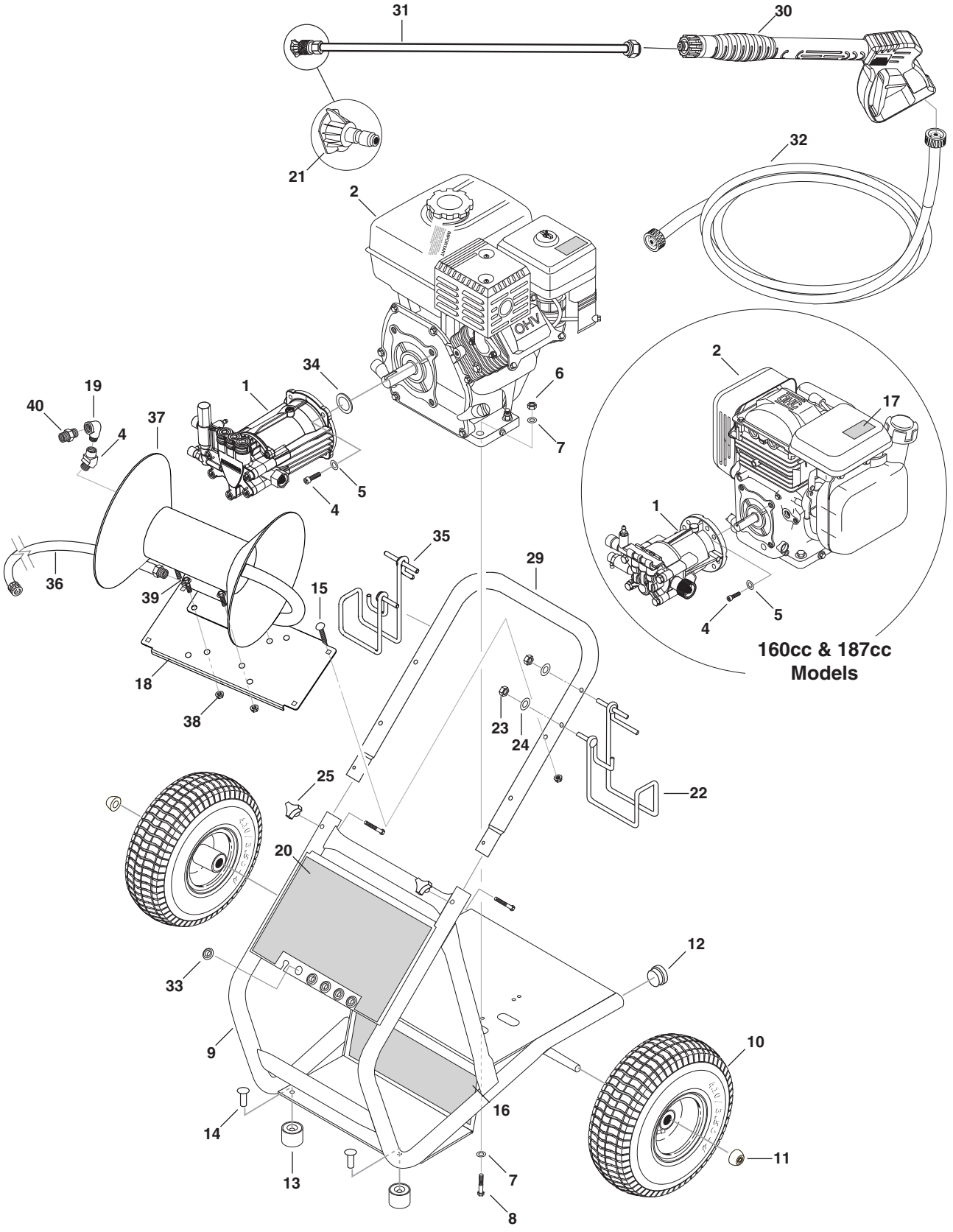
EXPLODED VIEW



EXPLODED VIEW PARTS LIST

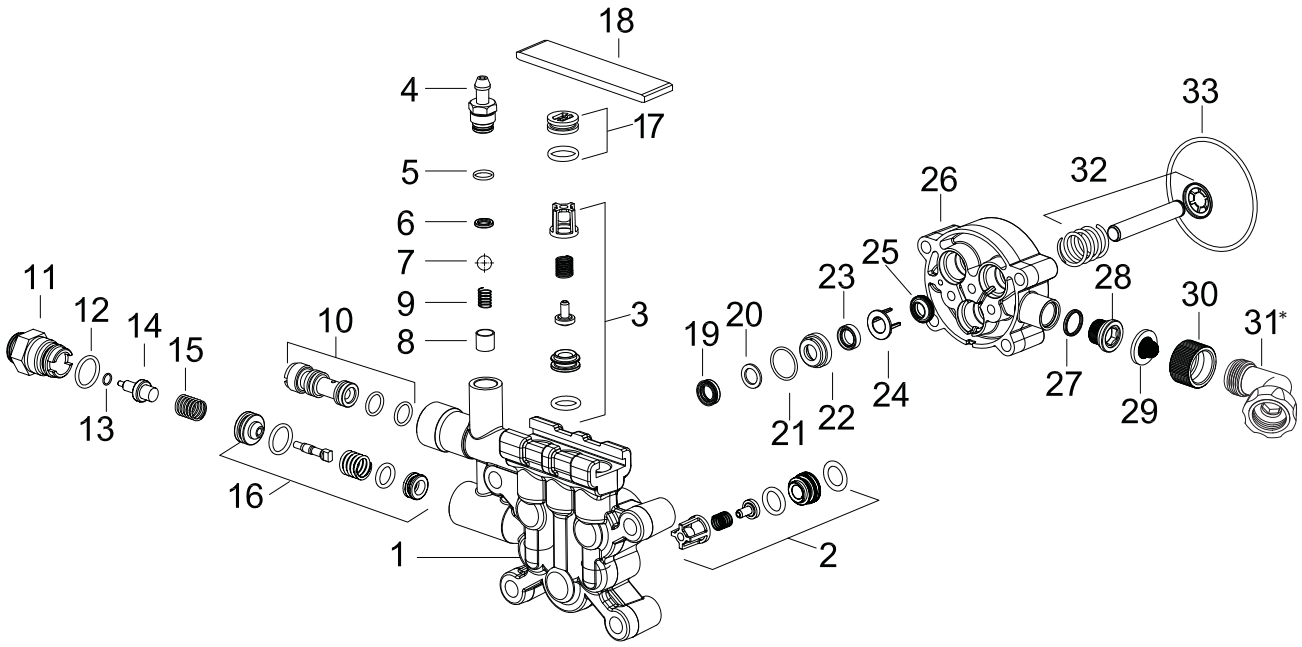
ITEM	PART NO.	DESCRIPTION	QTY
1	See Page 6	Pump, Legacy Axial 2.6 GPM **(160cc & 187cc Models)**	1
	See Page 8	Pump, K4000 **(270cc & 389cc Models)**	1
2	9.194-015.0	Engine -Honda GC 160 QHA **(160cc Model)**	1
	9.194-081.0	Honda Engine GC190 **(187cc Model)**	1
	8.750-680.0	Engine, Honda GX270QAG2 **(270cc Model)**	1
	8.750-580.0	Engine, Honda, GX390QA2 **(389cc Model)**	1
3	9.197-010.0	1/4-20" Nylon Insert Lock Nut with Flang **(270cc & 389cc Models)**	4
4	6.965-007.0	5/16-24X1 GR 5 SHCS	4
5	9.802-813.0	Washer, 5/16" Split Ring Lock	4
6	9.802-776.0	Nut, 5/16-18, ESNA **(160cc & 187cc Models)**	4
	9.197-003.0	3/8-16 NE Nylon Insert **(270cc & 389cc Models)**	4
7	8.718-980.0	Washer, 5/16" Flat **(160cc & 187cc Models)**	8
	9.198-004.0	3/8 USS F/W Zinc **(270cc & 389cc Models)**	8
8	9.186-010.0	5/16-18 X 1-1/2 GR 5 **(160cc & 187cc Models)**	4
	9.186-021.0	3/8-16 X 2 GR 5 **(270cc & 389cc Models)**	4
9	9.115-090.0	Powder Coated Frame	1
10	9.802-270.0	Wheel & Tire Aassy, 10" Steel Rim W/Tube	2
11	9.182-506.0	Cap Black Plastic 5/8"	2
12	9.183-001.0	Black, Plug Plastic	2
13	9.183-409.0	Rubber Dampener 5/16" typ A **(160cc & 187cc Models)**	1
	9.183-405.0	Rubber Dampener 5/16" typ B **(270cc & 389cc Models)**	1
14	9.196-308.0	5/16-18 X 1/2 Carriage Bolt	1
15	8.751-142.0	SCR, 1/4-20 X 1.75 Carriage **(270cc & 389cc Models)**	4
16	5.389-000.0	Warning Label	1
17	8.751-096.0	Label, Regulation4442.6	1
18	8.918-645.0	HD Hose Reel Bracket Painted **(270cc & 389cc Models)**	1
19	9.802-041.0	Elbow, 3/8" Street, 45° **(270cc & 389cc Models)**	1
20	8.753-547.0	Label, KG Series, GC **(160cc & 187cc Models)**	1
	8.753-557.0	Label, KG Series, GX **(270cc & 389cc Models)**	1

ITEM	PART NO.	DESCRIPTION	QTY
21	9.104-016.0	Q/C Nozzle Kit (0325) **(160cc & 187cc Models)**	1
	9.104-030.0	Q/C Nozzle Kit (040) **(389cc Model)**	1
	8.751-357.0	Q/C Nozzle Kit (045) **(270cc Model)**	1
22	9.142-010.0	Hanger Weld Assy 45DEG Left **(160cc & 187cc Models)**	1
23	9.802-786.0	Nut, 5/16, Hex, NC	2
24	9.198-003.0	5/16 Int. L/W .332 ID X .620	2
25	8.767-003.0	1/4-20 Star Knob without logo	2
26	9.196-307.0	1/4-20 x 1-1/2 GR 2 Hex Bolt	2
27	4.862-032.0	▲ Filter chemistry regulation	1
28	6.388-216.0	▲ Hose DN 5	1
29	9.140-131.0	Powder Coated Handle	1
30	9.112-017.0	Al5 Gun 4000 PSI	1
31	9.802-220.0	Wand, 18" M22 x 1/4" QC	1
32	9.162-320.0	HP Hose 50' Rubber DN6/210 **(160cc & 187cc Models)**	1
	9.162-323.0	HP Hose DN8/50'/4000 **(270cc & 389cc Models)**	1
33	9.802-064.0	Grommet, Rubber, Nozzle Holder	5
34	6.362-612.0	O-Ring seal 24,77x5,33-NBR70 **(270cc & 389cc Models)**	1
35	9.142-009.0	Hanger Weld Assy 45° **(270cc & 389cc Models)**	1
36	9.162-154.0	H.P. Hose 3FT. 250BAR **(270cc & 389cc Models)**	1
37	9.804-067.0	Hose Reel, EZEE 3/8x100' w/PINLOCK **(270cc & 389cc Models)**	1
38	9.802-781.0	Nut, 3/8" NC, Whiz Loc Flange **(270cc & 389cc Models)**	4
39	9.802-767.0	Screw, 3/8" x 3/4" NC, Whiz Loc Flange **(270cc & 389cc Models)**	4
40	8.707-185.0	Nipple, 3/8'MPT X M22, Twist Couple **(270cc & 389cc Models)**	1

▲ Not Shown

LEGACY AXIAL PUMP EXPLODED VIEW AND PARTS LIST

8.920-004.0



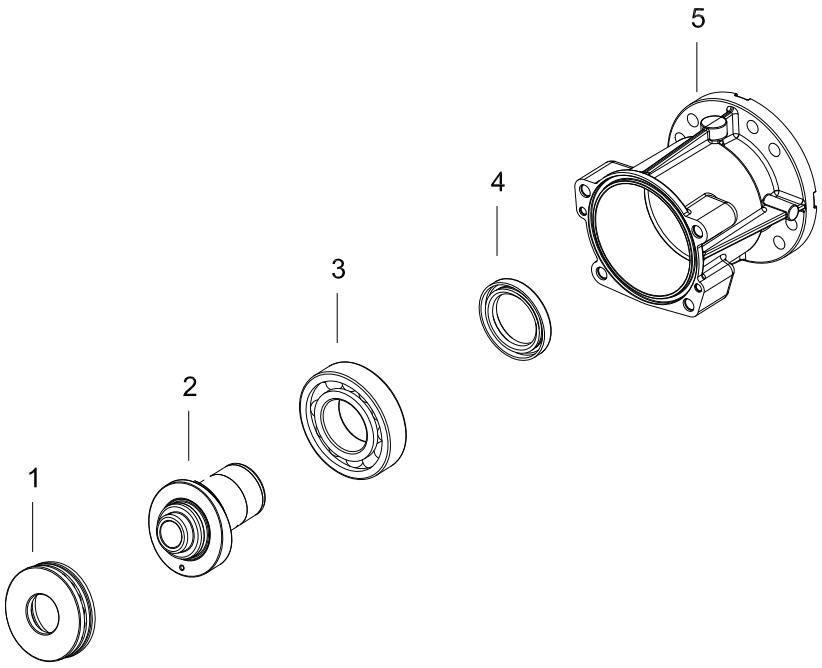
ITEM	PART #	DESCRIPTION	QTY
1	8.762-010.0	Cylinder Head	1
2	9.175-004.0	Valve Assy Horizontal	3
3	2.884-916.0	Valve Complete (Kit 3)	1
4	5.443-448.0	Nipple Chemestry	1
5	6.362-451.0	O-Ring Seal 8.0 x 1.0	1
6	6.362-175.0	O-Ring Seal, 5.28 x 1.78	1
7	7.401-909.0	Sphere 7 G40 - 1.4401	1
8	5.110-714.0	Sleeve	1
9	5.332-258.0	Helical Spring	1
10	9.139-372.0	Nozzle, INS 020/021 Pump	1
11	9.184-018.0	Outlet-Thermal Valve	1
12	6.362-480.0	O-Ring Seal, 12.42 x 1.78	1
13	7.362-507.0	O-Ring Seal 8 x 2 NBR 90	1
14	6.413-403.0	Thermo Valve Tin Coated	1

ITEM	PART #	DESCRIPTION	QTY
15	5.332-290.0	Helical Spring	1
16	9.175-005.0	Unloader Assembly	1
17	4.132-007.0	Drain Plug Replacement	1
18	5.003-062.0	Plate	1
19	9.177-301.0	Hich Pressure Seal	3
20	9.177-310.0	Back Ring	3
21	6.362-833.0	O-Ring Seal 12.5 x 1.73	3
22	9.155-011.0	Housing Low Pressure Seal	3
23	6.363-058.0	Grooved Ring	3
24	9.134-016.0	Spacer	3
25	6.365-393.0	Oil Sealing 12.20x4/6	3
26	9.133-007.0	Piston Guide	1
27	6.362-390.0	O-Ring Seal 15.6 x 1.8	1
28	9.134-019.0	Male Adapter	1
29	9.181-005.0	Filter Seal	1
30	9.155-013.0	Female House Conn	1
31	8.751-121.0	◆Gooseneck, Hose Adapter (For pump guard or Filters)	1
32	9.139-370.0	Spare Part List, Piston	1
33	6.362-471.0	O-Ring Seal 80.0x3.0 NBR70	1

◆Not Included

LEGACY AXIAL PUMP EXPLODED VIEW AND PARTS LIST

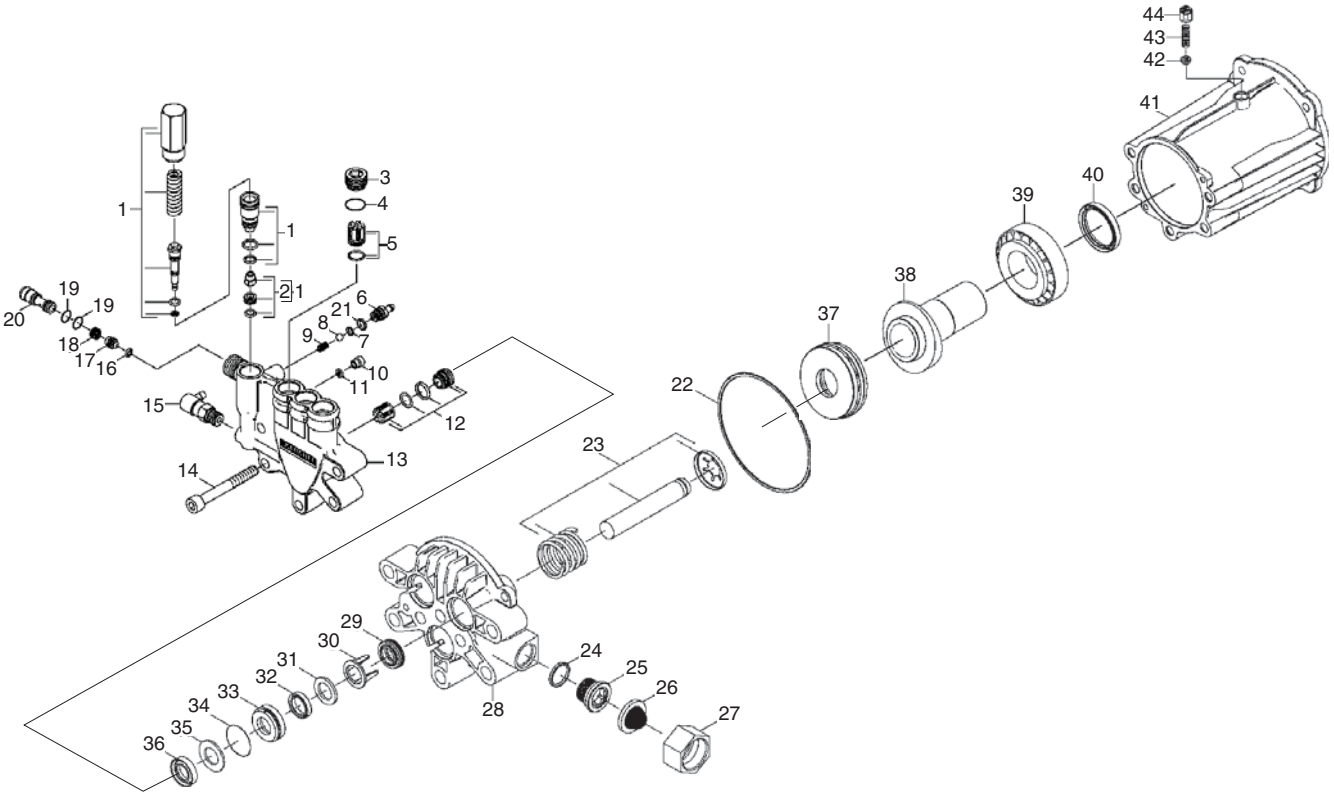
8.920-004.0 Housing View



ITEM	PART #	DESCRIPTION	QTY
1	9.166-016.0	Grooved Ball Bearing	1
2	9.135-018.0	Swash Plate Hor.	1
3	9.165-356.0	Ball Bearing No 6207	1
4	9.177-314.0	Radial Seal 35 x 52 x 7	1
5	9.135-016.0	Oil Housing	1

K4000 PUMP EXPLODED VIEW AND PARTS LIST

9.120-019.0



ITEM	PART NO.	DESCRIPTION	QTY
1	9.175-011.0	Unloader Assy (9.120-019.0) Pump	1
2	9.139-359.0	Spare parts set seat excess-current	1
3	9.154-047.0	Plug M22x1	3
4	6.362-481.0	O-Ring seal 14,0 x 2,0 NBR 80	3
5	2.884-512.0	Valve (Set With 3 pc.)	1
6	5.443-448.0	Nipple chemistry	1
7	6.362-175.0	O-Ring seal 5,28x 1,78	1
8	7.401-908.0	Sphere 7 G300 -1.4301 DIN 5401	1
9	5.332-258.0	Helical spring	1
10	9.154-049.0	Plug M10x1	1
11	9.151-014.0	Rupture Disk, 5000 \PSI, Blue	1
12	9.139-364.0	Spare Part List 019 (Set With 3 pc.)	1
13	9.135-012.0	Cylinder Head-Machined	1
14	7.306-072.0	Cylinder head screw M10X 80-8.8-A3E IS	5
15	9.184-013.0	Thermal Relief Valve	1
16	6.362-851.0	O-Ring seal 4 x 2 NBR 90	1
17	9.184-012.0	Valve Pin-Back Pressure	1
18	9.157-006.0	Spring-Valve Pin	1
19	6.362-384.0	O-Ring seal 9x1,5 - NBR 70 2	
20	5.769-141.0	Nozzle insert	1
21	6.362-451.0	O-Ring seal 8,0 x 1,0	1
22	6.363-067.0	O-Ring seal 92X2 NBR 70	1

ITEM	PART NO.	DESCRIPTION	QTY
23	9.139-358.0	Spare Part of Piston (Set With 3 pc.)	1
24	6.362-390.0	O-Ring seal 15,6 X 1,78	1
25	9.134-019.0	Male Adapter	1
26	9.181-005.0	Filter Seal-Hose Connector	1
27	9.155-013.0	Female Hose Connector	1
28	9.135-013.0	Piston Guide-4000 psi	1
29	6.365-340.0	Grooved ring 14X22X5/7	3
30	9.182-356.0	Spacer	3
31	9.177-311.0	Back Ring-Low Pressure Seal	3
32	6.365-438.0	Compact seal	3
33	9.155-014.0	Housing-Low Pressure Seal	3
34	6.362-376.0	O-Ring seal 24,0 X 1,5	3
35	9.177-312.0	Back Ring-High Pressure Seal	3
36	9.177-313.0	Seal high pressure	3
37	4.401-096.0	Deep groove ball thrust bearing only for	1
38	9.165-256.0	Swash Plate-Machined	1
39	6.401-225.0	Taper roller bearing 41	1
40	7.367-011.0	Radial shaft seal ring A40x52x7-NBR DIN	1
41	9.135-014.0	Oil Housing-Machined	
42	5.582-080.0	Valve disc	1
43	5.332-209.0	Helical spring	1
44	5.030-533.0	Moulded part	1

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
LOW OPERATING PRESSURE	Insufficient water supply. Closed faucet. Inlet hose kinked	Use larger garden hose; clean inlet water screen. Open faucet.
	Clogged inlet hose strainer	Check plumbing system for leaks. Retape leaks with teflon tape.
	Faulty or mis-adjusted unloader valve	Adjust unloader for proper pressure. Install repair kit when needed. Call local distributor.
	Worn packing in pump	Call Dealer Customer Support.
	Machine has been stored in freezing temperatures	Thaw out machine completely, including hose, spray gun and wand.
	Slow engine RPM	Call local distributor.
FLUCTUATING PRESSURE	Worn or dirty pump valves	Call local distributor.
	Nozzle is obstructed	Blow out or remove debris with fine needle.
	Pump sucking air, inlet hose leaking	Check that all hoses and fittings are airtight. Turn off machine and trigger spray gun until a steady flow of water emerges through the nozzle.
	Insufficient water supply	Turn water on full force. Check garden hose for kinks, leaks or blockage.
PRESSURE LOW AFTER PERIOD OF NORMAL USE	Nozzle worn	Replace nozzle.
	Unloader valve worn	Replace unloader valve.
ENGINE WILL NOT START OR STOPS WHILE OPERATING	Low oil shutdown	Fill engine with oil.
	Out of gas	Fill fuel tank.
	Water in gasoline	Drain gas tank; fill with clean fuel.
ENGINE IS OVERLOADED	Nozzle partially blocked	Clean nozzle.
	Excessive pressure from high engine RPM	Adjust engine throttle to lower RPM.
WATER OR OIL LEAKING FROM BOTTOM OF PUMP	A small amount of leaking is normal	If excessive leaking occurs, Call local distributor.
PRESENCE OF WATER IN PUMP OIL (BXD Comet & G Pump Series Only)	Water sprayed at machine	Change oil. Direct spray away from machine.
	High humidity in air	Check and change oil twice as often.
	Piston packing worn. Oil seal worn.	Call local distributor.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
ENGINE OPERATES FOR 15 MINUTES THEN STOPS	Not enough gas or engine oil	Fill tank with gas. Check oil level.
	Vapor lock developed by heat of day	Keep gas tank full to avoid vapor locking.
	Obstruction in fuel filter	Clean or replace fuel filter.
ENGINE LACKS POWER	Dirty air filter	Replace air filter.
ENGINE FALTERS	Choke is opened too soon	Move choke to halfway position until engine runs smoothly.
WATER DRIPPING FROM UNDER PUMP	Piston packing worn	Call local distributor.
	O-Ring plunger retainer worn	Call local distributor.
	Cracked piston	Call local distributor.
OIL DRIPPING	Oil seal worn or damaged	Call local distributor.
WATER LEAKING FROM PUMP PROTECTOR	Spray gun closed with machine running 5 minutes or longer	Open spray gun or turn off machine.
	Excess water supply pressure	Place a pressure regulator at end of 50' garden hose.
NO DETERGENT	Detergent suction tube not properly connected to machine	Check connection.
	Detergent is too thick	Dilute detergent. For best results, use manufacturers detergent.
	Detergent filter valve is at lowest setting	Set detergent filter valve to a higher setting.
	Filter on detergent suction tube is clogged	Run warm water through filter to remove debris.
	Damaged or clogged detergent suction tube	Remove obstruction or replace detergent suction tube.
	A high pressure nozzle is attached.	Replace with black detergent nozzle.
	Discharge nozzle is obstructed	Blow out or remove debris with fine needle.
GARDEN HOSE CONNECTION LEAKS	Loose fittings	Tighten fittings.
	Missing/worn rubber washer	Insert new washer.
SPRAY WAND LEAKS	Spray wand not properly attached	Slide the spray wand into the gun. Turn the wand collar clockwise onto the spray gun threads until tight.
	Broken o-ring	Call local distributor and order an o-ring.
PUMP IS NOISY	Pump is sucking air	Check that hoses and fittings are air tight. Turn off machine and purge pump by squeezing trigger gun until a steady flow of water emerges through nozzle.

PREVENTATIVE MAINTENANCE

This pressure washer was produced with the best available materials and quality craftsmanship. However, you as the owner have certain responsibilities for the correct care of the equipment. Attention to regular preventative maintenance procedures will assist in preserving the performance of your equipment. Contact your dealer for maintenance. Regular preventative maintenance will add many hours to the life of your pressure washer. Perform maintenance more often under severe conditions. Check pump oil and engine oil level before first use of your new pressure washer.

MAINTENANCE SCHEDULE		
Engine Oil	Inspect	Daily
	Change	First month or 20 hours. Every 100 hours or every 6 months after first month
	Filter	Every 50 hours
Air Cleaner/Filter	Inspect	Every 50 hours
	Clean	Monthly
Engine Fuel Filter		500 hours or 6 months
Spark Plug Maintenance		300 hours or annually
Clean Fuel Tank(s)		Annually
Replace Fuel Lines		Annually
Pump Oil (Comet and G Series pumps only)	Inspect	Oil level daily
	Change	After first 50 hours, then every 500 hours or annually
Replace High Pressure Nozzle		Every 6 months
Replace Quick Connects/O-Rings		Annually/As needed
Clean Water Screen/Filter		Weekly
Replace HP Hose		Annually (if there are any signs of wear)

OIL CHANGE RECORD

Check pump oil and engine oil level before first use of your new pressure washer.

Date Oil Changed Month/Day/Year	Estimated Operating Hours Since Last Oil Change

Date Oil Changed Month/Day/Year	Estimated Operating Hours Since Last Oil Change

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